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very profusely illustrated with facsimiles of pages, many of which are of title pages of rare first editions. It is a work of large magnitude and importance and has been done in a manner to reflect credit on the author.

## NOTES AND NEWS.

THE fourteenth meeting of the association was held at George Washington University on March 26. The program opened with an address of welcome by Dr. Charles W. Needham, president of George Washington University. After the routine business had been gone through with, the secretary read a motion that was recommended to the association by the council. It was necessitated by the requirements of the post office authorities in regard to second-class mail matter. The motion was as follows:

In consideration of the requirements of the post office authorities as to the entering of THE MATHEMATICS TEACHER as second-class mail matter, and since the sections of this association have passed motions approved the following procedure, it is hereby moved that the constitution of this association shall be amended so that the annual dues shall be fifty cents to those members who subscribed for THE MATHEMATICS TEACHER, and sixty cents to those members who do not so subscribe, the subscription to THE MATHEMATICS TEACHER being an entirely separate matter. It is further moved that this shall serve as notice of intention to so amend the constitution.

The motion was unanimously passed. The price of THE MATHEMATICS TEACHER has been fixed, for the present, at fifty cents a year to members, and one dollar a year to non-members.

The following papers were read and discussed:

"Teachers' Salaries and the Cost of Living," L. D. Arnett, Library Division, Bureau of Education.

"Some Remarks on Approximate Computation," M. J. Babb, University of Pennsylvania.

"Special Devices Used in the Teaching of Mathematics" (ten-minute papers). (a) Algebra, Eugene Randolph Smith, Polytechnic Preparatory School, Brooklyn, N. Y.; (b) Plane Geometry, Paul N. Peck, George Washington University, Washington, D. C.; (c) Solid Geometry, Howard F. Hart, High

School, Montclair, N. J.; (d) Trigonometry, William H. Jackson, Haverford College, Haverford, Pa.

As the chairman of the Algebra Syllabus Committee was unable to be present, the secretary gave a report of progress for the committee, and requested a vote on the inclusion of certain topics. The meeting voted not to include in advanced algebra the following topics:

1. General proof of the Binomial Theorem.
2. Convergency of Series.
3. Exponential Theorem and Logarithmic Series.
4. Variation.

#### NEW MEMBERS.

- N. Y. CANDLE, CATHERINE PATRICIA, A.B.; Normal College, New York.  
208 East 79th St.
- N. Y. CAFRON, FLORENCE ELIZABETH, A.B.; High School, Jersey City,  
N. J. 502 W. 149th St., New York City.
- N. Y. COLLINS, HAMLET PAUL, B.Sc.; High School, Jersey City, N. J.  
47 Bryant Terrace.
- DEAL, ALICE, A.B.; McKinley High School, Washington, D. C.  
The Victoria.
- FARR, SARAH M.; Central High School, Washington, D. C.  
1347 Newton St.
- S. GANTT, LILLIAN, A.B.; High School, Amsterdam N. Y. 5 Kim-  
ball St.
- S. LEWIS, MABEL E., A.B.; High School, Greenport, Long Island,  
N. Y.
- LITTLE, WILLIAM DARLINGTON, A.M.; High School, Jersey City,  
N. J. 550 Summit Ave.
- WARNER, FRANK BRADFORD, A.B.; The Hoover School. Patter-  
son, N. J.
- S. AHERN, KATHERINE C., A.B.; High School, Amsterdam, N. Y.  
46 Church St.
- S. ATWELL, ROBERT KING, A.B.; Syracuse University, Syracuse,  
N. Y.
- S. AVERY, ROYAL A., Ph.B.; North High School, Syracuse, N. Y.  
1317 First North St.
- P. HANFORD, BESSIE EUGENIA, A.B.; Wilson College, Chambers-  
burg, Pa.

EUGENE R. SMITH,  
*Secretary.*

FIFTY members of the Philadelphia Section attended the annual dinner held at the Bartram on April 9. Chairman George Alvin Snook presided, introducing the after-dinner speakers with happy comment.

President W. H. Metzler read a thoughtful convincing paper on "Formal Discipline."

Dr. Lucy Langdon Williams Wilson, of the Philadelphia Normal School, made clear the benefits which would result from a simple course in arithmetic in the elementary schools. First, the student could acquire greater accuracy in handling numbers; second, he could devote more time to the study of the world in which he lives; third, he would bring to his high school work a freshness and interest now lost in the mechanical grind of the early years.

Dr. Cheesman A. Herrick, president of Girard College, and Dr. Isaac T. Schwatt, of the University of Pennsylvania, each ably and earnestly contended for the faith as it had been delivered to him, Dr. Herrick emphasizing the vocational and Dr. Schwatt the cultural value of mathematics.

The committee in charge of the dinner were Mr. Walter Roberts, Miss Carolyn Wood Stretch and Mr. T. Eugene Walker.

THE special topic of the spring meeting of the Philadelphia Section was "The Locus Problem." Dr. Fletcher Durell, of the Lawrenceville School, introduced the topic by speaking particularly of the scope of the locus. He was followed by Dr. H. C. Whitaker, of the Southern High School, who presented in addition to the more common applications, some interesting practical illustrations that were new to many present. A general discussion followed.

The following officers were elected for the ensuing year: *Chairman*, Dr. George H. Hallett, University of Pennsylvania; *Vice-chairman*, Edward D. Fitch, Delancey School; *Secretary*, Elizabeth B. Albrecht, Philadelphia High School for Girls; *Members of the Executive Committee*, Agnes H. Long, Wm. Penn High School for Girls; Harry P. Rothermel, Southern High School.

MISS MURIEL SMITH, a graduate student of Rochester University, was elected to the mathematical staff of the William Penn High School as a result of a competitive examination. In a similar manner, Miss Florence Rothermel, formerly of the Camden and the Pottstown High Schools, was awarded a posi-

tion in the Philadelphia High School for Girls. Both teachers are members of our association.

MR. WILLIAM BARRETT, formerly head of the mathematical department of the Friends' Central School, has recently been promoted to the principalship of the school. Mr. Barrett was formerly the secretary of the Philadelphia Section, and has always taken an active part in the work of the section.

THE eighth regular meeting of the Rochester Section was held at the University of Rochester on March 5, with an attendance of twenty-four. The following papers were presented:

"Suggestions on the Teaching of Elementary Algebra," Mr. F. L. Lamson, The University of Rochester.

"Mathematics in French Schools," Professor W. E. Etzel, St. Bernard's Seminary, Rochester.

"The Place of Industrial Training in the American School," Mr. A. P. Fletcher, Supervisor of Manual Training, Rochester Public Schools.

"Examples of Common Loci," Mr. C. W. Watkeys, The University of Rochester.

Professor Etzel's remarks were especially interesting from the fact that he taught mathematics in France for many years.

It was voted that the sentiment of the Rochester Section is that the association should adopt the proposed separation of the annual dues and the subscription to the *THE MATHEMATICS TEACHER*.

Five applications for membership were received.

THE New York Section held its second regular meeting for the year at the High School of Commerce, Friday, March 11, 1910, at 8 p. m. The following program proved of interest: Report of Secretary-Treasurer. Announcement of the Committee for the further study of the problem of Industrial Mathematics, Mr. W. E. Breckenridge, chairman. General Topic for the Evening: "The National Geometry Syllabus."

As the reader is doubtless aware, a committee known as the National Geometry Syllabus Committee was appointed about a year ago as a joint committee of the National Educational Association and the Federation of Teachers of the Mathematical and the Natural Sciences, to prepare a "National

Syllabus of Geometry." The committee was divided into three sub-committees, each of which will be represented on our program as follows:

(a) Sub-committee on Logical Considerations, Mr. Eugene R. Smith, head of department of mathematics, Polytechnic Preparatory School, Brooklyn.

(b) Sub-committee on Lists of Basal Theorems, Dr. Herbert E. Hawkes, professor of mathematics, Yale University, New Haven, Conn.

(c) Sub-committee on Exercises and Applications, Mr. Clifford B. Upton, department of mathematics, Teachers College, Columbia University.

General discussion.